

## PATENT COOPERATION TREATY

PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>PCT40662DK006pag</b>	<b>FOR FURTHER ACTION</b> see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. <b>PCT/EP2006/002971</b>	International filing date (day/month/year) <b>31/03/2006</b>	(Earliest) Priority Date (day/month/year) <b>01/04/2005</b>
Applicant  <b>MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.</b>		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 5 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

a. With regard to the **language**, the international search was carried out on the basis of:

- ☒ the international application in the language in which it was filed  
☐ a translation of the international application into \_\_\_\_\_, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box No. II)

3. ☐ **Unity of invention is lacking** (see Box No. III)

4. With regard to the **title**,

- ☒ the text is approved as submitted by the applicant  
☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

- ☐ the text is approved as submitted by the applicant  
☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority

6. With regard to the **drawings**,

- a. the figure of the **drawings** to be published with the abstract is Figure No. 12  
☒ as suggested by the applicant  
☐ as selected by this Authority, because the applicant failed to suggest a figure  
☐ as selected by this Authority, because this figure better characterizes the invention  
b. ☐ none of the figures is to be published with the abstract

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/EP2006/002971

Box No. IV Text of the abstract (Continuation of Item 5 of the first sheet)

**10/589859**

**IAP14 Rec'd PCT/PTO 17 AUG 2006**

Mobile terminal communicating resource requests for dedicated uplink channel resources in a mobile communication system and method for communicating resource requests for dedicated uplink channel resources in a mobile communication system. To allow the serving cell to detect "DOWN" commands from non-serving cells during soft handover the invention suggests a new definition of criteria for setting the "happy bit" in the control information associated to data transmitted on dedicated uplink channels. According to these criteria the mobile terminal may not indicate an unhappy condition while ramping up resource utilization. Only if resources equivalent to the maximum serving grant are utilized, the transmission buffer status requires to and the power status of the terminal allows for the happy bit is set to indicate a unhappy condition.

## INTERNATIONAL SEARCH REPORT

International application No

PCT/EP2006/002971

A. CLASSIFICATION OF SUBJECT MATTER  
 INV. H04Q7/38 H04B7/005

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

H04B H04Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	"Universal Mobile Telecommunications System (UMTS); FDD enhanced uplink; Overall description; Stage 2 (3GPP TS 25.309 version 6.2.0 Release 6); ETSI TS 125 309" ETSI STANDARDS, EUROPEAN TELECOMMUNICATIONS STANDARDS INSTITUTE, SOPHIA-ANTIPO, FR, vol. 3-R2, no. V620, March 2005 (2005-03), XP014027653 ISSN: 0000-0001 page 13, lines 20-24 page 18, lines 1-11 page 20, line 26 - page 25, line 20	1-3, 13-19
A	----- -/--	4-12

☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\* & \* document member of the same patent family

Date of the actual completion of the international search

7 July 2006

Date of mailing of the international search report

13/07/2006

Name and mailing address of the ISA/

European Patent Office, P.B. 5818 Patentlaan 2  
 NL - 2280 HV Rijswijk  
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
 Fax: (+31-70) 340-3016

Authorized officer

Alonso Maleta, J

## C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2004/082356 A1 (WALTON J. RODNEY ET AL) 29 April 2004 (2004-04-29) paragraph [0178] -----	1,13,17
X	US 2004/252661 A1 (LINTULAMPI RAINO ET AL) 16 December 2004 (2004-12-16) page 79 -----	1,13,17
L	LGE, NOKIA, PANASONIC: "R2-052358 Criteria for the Happy Bit" 3GPP TSG-RAN WG2 MEETING #48BIS, [Online] 3 October 2005 (2005-10-03), pages 1-3, XP002362101 Retrieved from the Internet: URL: <a href="http://www.quintillion.co.jp/3GPP/TSG_RAN/TSG_RAN2005/TSG_RAN_WG2_RL2_10.html">http://www.quintillion.co.jp/3GPP/TSG_RAN/TSG_RAN2005/TSG_RAN_WG2_RL2_10.html</a> [retrieved on 2005-01-10] the whole document -----	1-19
A	SAMSUNG: "R2-050349 Happy bit with mirroring" 3GPP TSG-RAN WG2 #46, 18 February 2005 (2005-02-18), pages 1-3, XP002362102 the whole document -----	1-19

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/EP2006/002971

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2004082356 A1	29-04-2004	AU 2003287291 A1	13-05-2004
		BR 0315677 A	06-09-2005
		CA 2500355 A1	06-05-2004
		EP 1582032 A2	05-10-2005
		JP 2006504335 T	02-02-2006
		MX PA05004394 A	26-07-2005
		WO 2004039011 A2	06-05-2004
US 2004252661 A1	16-12-2004	AU 9215601 A	22-04-2002
		BR 0114492 A	30-12-2003
		CA 2424616 A1	18-04-2002
		CN 1470137 A	21-01-2004
		EP 1325644 A1	09-07-2003
		WO 0232168 A1	18-04-2002
		JP 2004511984 T	15-04-2004
		US 2002041583 A1	11-04-2002